

# **Notice of Allowability**

Application No.

09/848,291

Examiner

Wei Y. Zhen

Applicant(s)

LAM, THANH V.

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**-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--**

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to amendment filed on 8/24/2005.
2. ☒ The allowed claim(s) is/are 1,2,4-10,12,13,16,18-22,24-30,32,33,36,38-40,42,44,45,47-53,55,56,59 and 61-68.
3. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
  - a) ☐ All b) ☐ Some\* c) ☐ None of the:
    1. ☐ Certified copies of the priority documents have been received.
    2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
    3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

\* Certified copies not received: \_\_\_\_\_.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.  
**THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.**

4. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
  5. ☐ CORRECTED DRAWINGS ( as "replacement sheets") must be submitted.
    - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review ( PTO-948) attached
      - 1) ☐ hereto or 2) ☐ to Paper No./Mail Date \_\_\_\_\_.
    - (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date \_\_\_\_\_.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).**
6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

## **Attachment(s)**

1. ☐ Notice of References Cited (PTO-892)
2. ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
3. ☐ Information Disclosure Statements (PTO-1449 or PTO/SB/08),  
Paper No./Mail Date \_\_\_\_\_
4. ☐ Examiner's Comment Regarding Requirement for Deposit  
of Biological Material
5. ☐ Notice of Informal Patent Application (PTO-152)
6. ☒ Interview Summary (PTO-413),  
Paper No./Mail Date 9/26/2005.
7. ☒ Examiner's Amendment/Comment
8. ☒ Examiner's Statement of Reasons for Allowance
9. ☐ Other \_\_\_\_\_

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1. This office action is in response to the amendment filed on 8/24/2005.
2. Claims 1-2, 4-10, 12-13, 16, 18-22, 24-30, 32-33, 36, 38-40, 42, 44-45, 47-53, 55-56, 59, 61-68 are allowed.

#### **EXAMINER'S AMENDMENT**

3. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Kevin P. Radigan, Reg. No. 31,789 on 9/26/2005. The amendment was made in order to put the case in condition for allowance. It was agreed to have the following amendment be made to the claims: (1) the subject matter of allowable dependent claims 3, 17, 23, 37, 46 & 60 has been incorporated into respective independent claims 1, 16, 21, 36, 44 & 59; and (2) claims 41 & 43 were canceled. Please also note that, further to formality, the dependencies of various dependent claims have also been amended to depend from non-canceled claims (e.g., claims 4 & 5 have been amended to depend from independent claim 1, instead of now-canceled claim 3).

The application has been amended as follows:

Please replace the previous claims with the following claims:

1. (Currently Amended) A method of auditing data of data entry forms, said method comprising:

providing a plurality of observable objects, each observable object being provided for a different corresponding field of a plurality of fields of a data entry form to be audited, each said observable object including logic to be used for auditing data of its corresponding field; [[and]]

auditing data of the plurality of fields using the plurality of observable objects; and

further comprising building a modifier object for a corresponding field, in response to the auditing determining that a specified event related to the corresponding field has occurred.

2. (Previously Presented) The method of claim 1, wherein the plurality of observable objects provide decentralized locations for auditing the data of the plurality of fields.

3. (Canceled).

4. (Currently Amended) The method of claim [[3]] 1, wherein the specified event includes a change in the data of the corresponding field.

5. (Currently Amended) The method of claim [[3]] 1, further comprising forwarding the modifier object to a pool of one or more modifier objects.

6. (Original) The method of claim 5, further comprising:  
retrieving, by an observer, the modifier object from the pool; and  
running a modifier method of said modifier object to accommodate the specified event.

7. (Original) The method of claim 6, wherein the modifier method comprises a modify method, and running the modify method causes changed data to be stored in a storage medium.

8. (Original) The method of claim 6, further comprising informing the observer that the modifier object has been added to the pool of one or more modifier objects.

9. (Original) The method of claim 6, wherein the observer is a test observer used for debugging.

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10. (Original) The method of claim 9, wherein the modifier method comprises a test method used for debugging.

11. (Canceled).

12. (Previously Presented) The method of claim 1, further comprising automatically building a modifier object for each field of said plurality of fields that includes changed data, as determined by the auditing.

13. (Previously Presented) A method of auditing data of a data entry form, said method comprising:

providing a plurality of observable objects, each observable object being provided for a different corresponding field of a plurality of fields of the data entry form to be audited, each said observable object including logic to be used for auditing data of its corresponding field;

auditing data of the plurality of fields using the plurality of observable objects;

automatically building a modifier object for each corresponding field, in response to the auditing determining that a change has occurred in the data of the corresponding field;

automatically forwarding each modifier object to a pool of one or more modifier objects;

automatically informing an observer object that the modifier object has been added to the pool of one or more modifier objects;

automatically retrieving, by the observer object, the modifier object from the pool; and

automatically running, by the observer object, a modify method of the modifier object to accommodate the change in the data of the corresponding field.

14. (Canceled).

15. (Canceled).

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16. (Currently Amended) A method of auditing data of components of a self-monitoring framework, said method comprising:

providing an observable object for each component of a plurality of components of multiple components of said self-monitoring framework to be audited, each observable object including logic to be used for auditing data of its associated component; [[and]]

auditing data of said each component using the observable object corresponding to that component; and

further comprising building a modifier object for each component of said plurality of components determined by the auditing to have had a specified event for that component occur.

17. (Canceled).

18. (Currently Amended) The method of claim [[17]] 16, wherein the specified event for a component is related to one or more operating conditions of the component.

19. (Currently Amended) The method of claim [[17]] 16, further comprising forwarding each modifier object to a pool of modifier objects.

20. (Original) The method of claim 19, further comprising:

retrieving, by one or more observers, the one or more modifier objects of the pool; and

running, by the one or more observers, one or more modify methods of the one or more modifier objects retrieved from the pool to accommodate one or more specified events.

21. (Currently Amended) A system of auditing data of data entry forms, said system comprising:

means for providing a plurality of observable objects, each observable object being provided for a different corresponding field of a plurality of fields of

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a data entry form to be audited, each said observable object including logic to be used for auditing data of its corresponding field; [[and]]

means for auditing data of the plurality of fields using the plurality of observable objects; and

further comprising means for building a modifier object for a corresponding field, in response to the auditing determining that a specified event relating to the corresponding field has occurred.

22. (Previously Presented) The system of claim 21, wherein the observable objects provide decentralized locations for auditing the data of the plurality of fields.

23. (Canceled).

24. (Currently Amended) The system of claim [[23]] 21, wherein the specified event includes a change in the data of the corresponding field.

25. (Currently Amended) The system of claim [[23]] 21, further comprising means for forwarding the modifier object to a pool of one or more modifier objects.

26. (Original) The system of claim 25, further comprising:

means for retrieving, by an observer, the modifier object from the pool;  
and

means for running a modifier method of said modifier object to accommodate the specified event.

27. (Original) The system of claim 26, wherein the modifier method comprises a modify method, and the modify method causes changed data to be stored in a storage medium.

28. (Original) The system of claim 26, further comprising means for informing the observer that the modifier object has been added to the pool of one or more modifier objects.

29. (Original) The system of claim 26, wherein the observer is a test observer used for debugging.

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30. (Original) The system of claim 29, wherein the modifier method comprises a test method used for debugging.

31. (Canceled).

32. (Previously Presented) The system of claim 21, further comprising means for automatically building a modifier object for each field of said plurality of fields that includes changed data, as determined by the auditing.

33. (Previously Presented) A system of auditing data of a data entry form, said system comprising:

means for providing a plurality of observable objects, each observable object being provided for a different corresponding field of a plurality of fields of the data entry form to be audited, each said observable object including logic to be used for auditing data of its corresponding field;

means for auditing data of the plurality of fields using the plurality of observable objects;

means for automatically building a modifier object for each corresponding field, in response to the auditing determining that a change has occurred in the data of the corresponding field;

means for automatically forwarding the each modifier object to a pool of one or more modifier objects;

means for automatically informing an observer object that the modifier object has been added to the pool of one or more modifier objects;

means for automatically retrieving, by the observer object, the modifier object from the pool; and

means for automatically running, by the observer object, a modify method of the modifier object to accommodate the change in the data of the corresponding field.

34. (Canceled).

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35. (Canceled).

36. (Currently Amended) A system of auditing data of components of a self-monitoring framework, said system comprising:

means for providing an observable object for each component of a plurality of components of multiple components of said self-monitoring framework to be audited, each observable object including logic to be used for auditing data of its associated component; [[and]]

means for auditing data of said each component using the observable object corresponding to that component; and

further comprising means for building a modifier object for each component of said plurality of components determined by the auditing to have had a specified event for that component occur.

37. (Canceled).

38. (Currently Amended) The system of claim [[37]] 36, wherein the specified event for a component is related to one or more operating conditions of the component.

39. (Currently Amended) The system of claim [[37]] 36, further comprising means for forwarding each modifier object to a pool of modifier objects.

40. (Original) The system of claim 39, further comprising:

means for retrieving, by one or more observers, the one or more modifier objects of the pool; and

means for running, by the one or more observers, one or more modify methods of the one or more modifier objects retrieved from the pool to accommodate one or more specified events.

41. (Canceled).

42. (Previously Presented) A system of auditing data of a data entry form, said system comprising:



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a plurality of observable objects, each observable object being provided for a different corresponding field of a plurality of fields of the data entry form to be audited, each said observable object including auditing logic for auditing data of its corresponding field;

a modifier object automatically built for each corresponding field, in response to the auditing logic determining that a change has occurred in the data of the corresponding field;

a pool of one or more modifier objects to receive each modifier object;  
and

an observer informed that the modifier object has been added to the pool of one or more modifier objects, wherein the observer retrieves the modifier object from the pool, and runs a modify method of the modifier object to accommodate the change in the data of the corresponding field.

43. (Canceled).

44. (Currently Amended) At least one program storage device readable by a machine, tangibly embodying at least one program of instructions executable by the machine to perform a method of auditing data of data entry forms, said method comprising:

providing a plurality of observable objects, each observable object being provided for a different corresponding field of a plurality of fields of a data entry form to be audited, each said observable object including logic to be used for auditing data of its corresponding field; [[and]]

auditing data of the plurality of fields using the plurality of observable objects; and

wherein said method further comprises building a modifier object for a corresponding field, in response to the auditing determining that a specified event related to the corresponding field has occurred.

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45. (Previously Presented) The at least one program storage device of claim 44, wherein the plurality of observable a objects provide decentralized locations for auditing the data of the plurality of fields.

46. (Canceled).

47. (Currently Amended) The at least one program storage device of claim ~~[[46]]~~ 44, wherein the specified event includes a change in the data of the corresponding field.

48. (Currently Amended) The at least one program storage device of claim ~~[[46]]~~ 44, wherein said method further comprises forwarding the modifier object to a pool of one or more modifier objects.

49. (Original) The at least one program storage device of claim 48, wherein said method further comprises:

retrieving, by an observer, the modifier object from the pool; and

running a modifier method of said modifier object to accommodate the specified event.

50. (Original) The at least one program storage device of claim 49, wherein the modifier method comprises a modify method, and running the modify method causes changed data to be stored in a storage medium.

51. (Original) The at least one program storage device of claim 49, wherein said method further comprises informing the observer that the modifier object has been added to the pool of one or more modifier objects.

52. (Original) The at least one program storage device of claim 49, wherein the observer is a test observer used for debugging.

53. (Original) The at least one program storage device of claim 52, wherein the modifier method comprises a test method used for debugging.

54. (Canceled).

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55. (Previously Presented) The at least one program storage device of claim 44, wherein said method further comprises automatically building a modifier object for each field of said plurality of fields that includes changed data, as determined by the auditing.

56. (Previously Presented) At least one program storage device readable by a machine, tangibly embodying at least one program of instructions executable by the machine to perform a method of auditing data of a data entry form, said method comprising:

providing a plurality of observable objects, each observable object being provided for a different corresponding field of a plurality of fields of the data entry form to be audited, each said observable object including logic to be used for auditing data of its corresponding field;

auditing data of the plurality of fields using the plurality of observable objects;

automatically building a modifier object for each corresponding field, in response to the auditing determining that a change has occurred in the data of the corresponding field;

automatically forwarding each modifier object to a pool of one or more modifier objects;

automatically informing an observer object that the modifier object has been added to the pool of one or more modifier objects;

automatically retrieving, by the observer object, the modifier object from the pool; and

automatically running, by the observer object, a modify method of the modifier object to accommodate the change in the data of the corresponding field.

57. (Canceled).

58. (Canceled).

59. (Currently Amended) At least one program storage device readable by a machine, tangibly embodying at least one program of instructions executable by the machine to

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perform a method of auditing data of components of a self-monitoring framework, said method comprising:

providing an observable object for each component of a plurality of components of multiple components of said self-monitoring framework to be audited, each observable object including logic to be used for auditing data of its associated component; [[and]]

auditing data of said each component using the observable object corresponding to that component; and

wherein said method further comprises building a modifier object for each component of said plurality of components determined by the auditing to have had a specified event for that component occur.

60. (Canceled).

61. (Currently Amended) The at least one program storage device of claim [[60]] 59, wherein the specified event for a component is related to one or more operating conditions of the component.

62. (Currently Amended) The at least one program storage device of claim [[60]] 59, wherein said method further comprises forwarding each modifier object to a pool of modifier objects.

63. (Original) The at least one program storage device of claim 62, wherein said method further comprises:

retrieving, by one or more observers, the one or more modifier objects of the pool; and

running, by the one or more observers, one or more modify methods of the one or more modifier objects retrieved from the pool to accommodate one or more specified events.

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64. (Previously Presented) The method of claim 1, wherein the plurality of observable objects provide decentralized locations for auditing the data of the plurality of fields, and wherein each observable object includes logic for use in auditing only data of its corresponding field.

65. (Previously Presented) The method of claim 64, further comprising building a modifier object for a corresponding field, in response to the auditing determining that a specified event related to the corresponding field has occurred, wherein the building comprises automatically generating a modifier object for the corresponding field.

66. (Previously Presented) The method of claim 65, further comprising registering at least one observer object with the plurality of observable objects, and wherein the method further comprises automatically forwarding each modifier object to a pool of one or more modifier objects, retrieving by the at least one observer object the modified object from the pool, and automatically running a modifier method of the modifier object to accommodate the specified event.

67. (Previously Presented) The method of claim 66, wherein the at least one observer object comprises a plurality of observer objects, and wherein the method further comprises automatically informing the plurality of observer object that the modifier object has been added to the pool of one or more modifier objects, and wherein the plurality of observer objects collaborate to avoid executing the modifier method of the modifier object multiple times.

68. (Previously Presented) The method of claim 67, wherein the one or more modifier objects are to be processed in a designated order, and wherein the method further comprises associating a tag with each modifier object to enable the plurality of observer objects to retrieve modifier objects from the pool in a specified order.

-- End --

***Reasons for allowance***

4. The following is an examiner's statement of reasons for allowance: the cited prior arts taken alone or in combination fail to disclose, in combination with other claimed limitations, building a modifier object for a corresponding field, in response to the auditing determining that a specified event related to the corresponding field has occurred as recited similarly in independent claims 1, 13, 16, 21, 33, 36, 42, 44, 56 and 59 and as pointed out by the applicant on pp. 2-4 of remarked filed on 8/24/2005.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

***Conclusion***


5. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Wei Y. Zhen whose telephone number is (571) 272-3708. The examiner can normally be reached on Monday-Friday, 8 a.m. - 4:30 p.m.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Tuan Dam can be reached on (571) 272-3695. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Wei Zhen



**WEI Y. ZHEN**  
**PRIMARY EXAMINER**